

WHAT IS CLAIMED IS:

1. An ultrasonic cleaner comprising:

- (a) a body section;
- (b) a vibration generator mounted in the body section and having a vibration-transmitting portion formed at its front end for transmitting vibration to an object to be cleaned; and
- (c) a cleaning-medium feed section for feeding a cleaning medium to the object to be cleaned.

2. An ultrasonic cleaner according to claim 1, wherein:

- (a) the vibration-transmitting portion is formed at a front end of a horn of the vibration generator ; and
- (b) a slide-smoothing surface is formed on a front end face of the horn.

3. An ultrasonic cleaner according to claim 2, wherein the cleaning-medium feed section is formed such that the front end of the horn faces the cleaning-medium feed section.

4. An ultrasonic cleaner according to claim 3, wherein the cleaning-medium feed section assumes the form of a slit.

5. An ultrasonic cleaner according to claim 1, wherein the cleaning-medium feed section is adapted to feed an object to be cleaned with a cleaning medium contained in a cleaning medium container.

6. An ultrasonic cleaner according to claim 5, wherein the cleaning medium container is removably attached to the body section.

7. An ultrasonic cleaner according to claim 4, wherein:

(a) a tongue is provided adjacent to the front end of the horn;
and

(b) when the tongue is pressed against an object to be cleaned, the front end of the horn is caused to protrude from the slit.

8. An ultrasonic cleaner according to claim 7, wherein protrusion of the front end of the horn from the slit is accompanied by discharge of the cleaning medium from the cleaning medium container.

9. An ultrasonic cleaner according to claim 1, wherein a brush is implanted adjacent to the vibration-transmitting portion.

10. An ultrasonic cleaner according to claim 1, further comprising:

(a) a load detector for detecting load imposed on a vibrator of the vibration generator; and

(b) an oscillator circuit for generating vibration on the basis of a detected load.